WIRELESS SUBSCRIBER NETWORK REGISTRATION SYSTEM FOR CONFIGURABLE SERVICES

ABSTRACT OF THE DISCLOSURE

In a wireless telecommunications network, wireless transmissions are carried via an RF medium between users and a central wireless transceiver, or base station processor. A subscriber access unit connected to a user device such as a user PC is employed to transmit wireless messages to and from the base station processor. Multiple, simultaneous wireless transmissions to the base station from different subscriber access units can have a tendency to interfere with each other. Subscriber access units employing an omnidirectional antenna or which are highly mobile will tend to experience more interference than stationary users or subscriber access units employing a directional antenna. The allocation of wireless transmission resources to retransmit wireless messages over a lossy link can have a detrimental effect on wireless resources available for other users. A system which allows a subscriber access unit to register device capabilities with a base station processor to determine the degree to which a particular subscriber access unit may be prone to interference provides computation and adjustment of transmission constraints for each subscriber access unit accordingly to maximize throughput.